

DaimlerChrysler AG

Patent Claims

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1. A motor vehicle seat (1)

- with a seat height adjustment device that is embodied in such a way as to adjust a first part (2) of the motor vehicle seat (1) in relation to a second part (3) of the motor vehicle seat (1),
- with at least one crash element (4) being arranged between the first part (2) and the second part (3) of the motor vehicle seat (1), that in the event of a collision prevents or at least hinders movement of the first part (2) of the motor vehicle seat (1) relative to the second part (3) of the motor vehicle seat (1), characterized in that
 - the crash element (4) is embodied as a piston-cylinder unit, the piston (5) thereof being connected to the first part (2) of the motor vehicle seat (1) and the cylinder (6) thereof being connected to the second part (3) of the motor vehicle seat (1),
 - an opening (8) is provided in a cylinder wall (7) through which a toothed blocking element (9) of a blocking device (10) can be engaged in a blocking manner with a toothing (11) formed on the piston (5), at least in the event of a collision.

2. The motor vehicle seat as claimed in claim 1, characterized in that

- 35 a mounting point (12) is embodied or formed on the cylinder (6) with which the cylinder is rotatably mounted on either part (2, 3) of the motor vehicle seat (1).

3. The motor vehicle seat as claimed in claim 1 or 2,
characterized in that
the mounting point (12) of the piston (5) or of
5 the cylinder (6) on the first part (2) of the
motor vehicle seat (1) is at the same time a
mounting point (12') for a belt buckle (13).
4. The motor vehicle seat as claimed in one of claims
10 1 to 3,
characterized in that
the blocking device (10) is arranged on the
outside of the cylinder (6).
- 15 5. The motor vehicle seat as claimed in one of claims
1 to 4,
characterized in that
actuation of the blocking element (9) takes place
mechanically, pyrotechnically, electrically or
20 electromagnetically.
6. The motor vehicle seat as claimed in one of claims
1 to 5,
characterized in that
25 a collision sensor or a pre-collision sensor is
provided that in the event of a collision or a
pre-collision moves the blocking element (9) to
its blocking position.
- 30 7. The motor vehicle seat as claimed in one of claims
1 to 6,
characterized in that
the blocking element (9) is permanently in its
blocking position and moves to a non-blocking
35 position only in the event of a seat height
adjustment.

8. The motor vehicle seat as claimed in one of claims
1 to 7,
characterized in that
at least one locking element (14) is provided that
when triggered fixes the blocking element (9) in
its blocking position.